

**Flood Control Project Maintenance
Levee Inspections**

Maintenance Issue Types Only, Levee Inspection Report By Mile - Spring 2017

Reclamation District No. 0070 Meridian

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass	Right	7.92	04/06/2017 04/06/2017	Bob Duffey

LM Start		Rating **	A	Issue No.	12
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
DWR ID	DWR_RD0070_01_f_2015_12				
Comment Code					
Inspector Comment					
The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	13
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
DWR ID	DWR_RD0070_01_s_2013_13				
Comment Code					
Inspector Comment					
The LMA has adequate flood fight supplies and equipment.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Unit No. 01 Sutter Bypass	Right	7.92	04/06/2017 04/06/2017	Bob Duffey

LM Start		Rating **	A	Issue No.	14
LM End		Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_RD0070_01_s_2013_14				
Comment Code					
Inspector Comment					
The LMA completed flood fight training in 2014.					

No Photos

LM Start	1.77	Rating **	M	Issue No.	32
LM End	1.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.151282 °	39.151282 °
				-121.855818 °	-121.855818 °
DWR ID	DWR_RD0070_01_f_2016_32				
Comment Code					
A1 : Exterminate rodents and backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD0070_29_32_20170315_00007.jpg



View of the rodent holes along the waterside slope.

LM Start	3.72	Rating **	M	Issue No.	29
LM End	3.72	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.158183 °	39.158183 °
				-121.888397 °	-121.888397 °
DWR ID	DWR_RD0070_01_f_2016_29				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD0070_29_29_20170315_00004.jpg



View of the ruts along the waterside slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass	Right	7.92	04/06/2017 04/06/2017	Bob Duffey

LM Start	4.57	Rating **	M	Issue No.	34
LM End	4.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.167168 °	39.167168 °
				-121.899102 °	-121.899102 °
DWR ID	DWR_RD0070_01_s_2015_34				
Comment Code					
PR : Prunings					
Inspector Comment					
Remove the prunings from landside toe.					

Photo 1 of 1 : SP_2017_RD0070_29_34_20170315_00009.jpg



View of the prunings along the landside toe.

LM Start	6.18	Rating **	M	Issue No.	6	
LM End	6.18	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			39.187481 °		39.187481 °
				-121.910852 °		-121.910852 °
DWR ID	DWR_RD0070_01_s_2012_6					
Comment Code						
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.						
Inspector Comment						

Photo 1 of 2 : SP_2017_RD0070_29_6_20170315_00001.jpg



View of vehicle erosion along the waterside slope.

LM Start	6.18	Rating **	M	Issue No.	6 (cont)
LM End	6.18	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2017_RD0070_29_6_20170315_00002.jpg



View of the vehicle erosion along the waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Sutter Bypass	Right	7.92	04/06/2017 04/06/2017	Bob Duffey

LM Start	7.16	Rating **	M	Issue No.	31
LM End	7.16	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.196157 °	39.196157 °
				-121.922688 °	-121.922688 °
DWR ID	DWR_RD0070_01_f_2016_31				
Comment Code					
TR : Tree or limb					
Inspector Comment					
Remove the fallen tree.					

Photo 1 of 1 : SP_2017_RD0070_29_31_20170315_00006.jpg



View of a fallen tree along the waterside toe.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
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U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	15.50	04/06/2017 04/06/2017	Bob Duffey

LM Start	1.40	Rating **	M	Issue No.	48
LM End	1.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.178369 °	39.178369 °
				-121.942657 °	-121.942657 °
DWR ID	DWR_RD0070_02_f_2016_48				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD0070_30_48_20170315_00005.jpg



View of the ruts along the waterside slope.

LM Start	2.40	Rating **	M	Issue No.	49
LM End	2.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.165462 °	39.165462 °
				-121.935244 °	-121.935244 °
DWR ID	DWR_RD0070_02_f_2016_49				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	15.50	04/06/2017 04/06/2017	Bob Duffey

LM Start	4.31	Rating **	M	Issue No.	51
LM End	4.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.144305 °	39.144305 °
				-121.917400 °	-121.917400 °
DWR ID	DWR_RD0070_02_f_2016_51				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

LM Start	4.95	Rating **	M	Issue No.	54
LM End	4.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.142016 °	39.142016 °
				-121.926214 °	-121.926214 °
DWR ID	DWR_RD0070_02_f_2016_54				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD0070_30_54_20170315_00008.jpg



View of the trees blocking visibility.

LM Start	7.74	Rating **	N	Issue No.	59
LM End	7.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.124503 °	39.124503 °
				-121.915252 °	-121.915252 °
DWR ID	DWR_RD0070_02_f_2016_59				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	15.50	04/06/2017 04/06/2017	Bob Duffey

LM Start	8.10	Rating **	M	Issue No.	2
LM End	8.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	2015 USACE Erosion Survey, DRAFT			39.122459 °	39.120684 °
				-121.910121 °	-121.909152 °
DWR ID	DWR_RD0070_02_s_2016_2				
Comment Code					
Inspector Comment					
1997 - Critical Site - Erosion of cobble site on outside of a bend. Failure caused by erosion of a material from behind the cobbles and cobbles rolling down the slope. Failure is just above the toe levee. Some repairs had been done at the upstream end. 2004 - Some minor new erosion at the top of the berm. 2005 - Trees look okay and the downstream end has some new rock repair. Site is no longer critical. 2006 - No longer critical, some repairs. 2015: No observed changes. [2015 Site ID: SAC_130-0_L]					

Photo 1 of 1 : SP_2017_RD0070_30_2_20170315_00002.jpg



USACE 2013 Photo #1

LM Start	8.10	Rating **	M	Issue No.	60
LM End	8.10	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.122568 °	39.122568 °
				-121.909723 °	-121.909723 °
DWR ID	DWR_RD0070_02_f_2016_60				
Comment Code					
T1 : Trim trees to at least five feet above ground level.					
Inspector Comment					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	15.50	04/06/2017 04/06/2017	Bob Duffey

LM Start	9.28	Rating **	M	Issue No.	61
LM End	9.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			39.107285 °	39.107285 °
				-121.900753 °	-121.900753 °
DWR ID	DWR_RD0070_02_f_2016_61				
Comment Code					
A3 : No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD0070_30_61_20170315_00012.jpg



View of the rodent holes along the landside slope.

LM Start	9.69	Rating **	N	Issue No.	63
LM End	9.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.101343 °	39.101343 °
				-121.899381 °	-121.899381 °
DWR ID	DWR_RD0070_02_f_2016_63				
Comment Code					
T5 : Tree stumps.					
Inspector Comment					

No Photos

LM Start	10.64	Rating **	M	Issue No.	6
LM End	10.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.090300 °	39.090300 °
				-121.893102 °	-121.893102 °
DWR ID	DWR_RD0070_02_s_2012_6				
Comment Code					
S3 : Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD0070_30_6_20170315_00003.jpg



View of vehicle erosion along landside slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

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Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Sacramento River	Left	15.50	04/06/2017 04/06/2017	Bob Duffey

LM Start	13.82	Rating **	U	Issue No.	72
LM End	13.82	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			39.068370 °	39.068370 °
				-121.862763 °	-121.862763 °
DWR ID	DWR_RD0070_02_s_2017_72				
Comment Code					
E2 : Schedule repair of erosion site prior to the next inspection.					
Inspector Comment					
Repair the erosion along the waterside slope.					

Photo 1 of 1 : SP_2017_RD0070_30_72_20170410_00122.jpg



View of the erosion along the waterside slope.

LM Start	14.14	Rating **	M	Issue No.	66
LM End	14.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			39.069849 °	39.069849 °
				-121.857267 °	-121.857267 °
DWR ID	DWR_RD0070_02_f_2016_66				
Comment Code					
S1 : Repair slope instability.					
Inspector Comment					

Photo 1 of 1 : SP_2017_RD0070_30_66_20170315_00015.jpg



View of slope instability along the landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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